

MK19 Tactical Engagement System (TES)



Mission

Enable realistic combat training exercises without using live ammunition.

Description and Specifications

The **MK19 Simulation Player Unit (SPU)** system consists of a Laser Module, Operator Module, Audio Cue Device (ACD), and Trigger Assembly. The Laser Module emits visible flash cues and an invisible (infrared) laser beam toward a target. A blue LED Laser Firing Indicator located on the rear of the Laser Module provides the gunner with a visible indication that the laser has fired. A target is outfitted with a detector assembly that senses the laser beam from the Laser Module to cause a target KILL or NEAR MISS.

The Operator Module provides the individual with the means to display ammo type, ammo remaining, and the selected range. The Ammo Select allows the operator to change the ammo type. The Reload Belt resets the ammo loaded count to the maximum for the type selected. (Approximate reload time is one minute.) The Operator Module allows review of events (scrolls through the last series of actions taken). Additional messages that may show up include low battery warning, weapon destroyed, and BIT failure.

The Trigger Assembly senses the MK-19 firing trigger and signals the Laser Module and Operator Module to fire the laser. The ACD provides realistic sound effects.

Separate support equipment includes a Controller Gun (CG), used by the controller of the training exercise. The MK-19 SPU system kit includes alignment targets for performing bore sight verification, and an interface bracket to mount the ACD on a tripod or pintle mount.